

Table D-1. Argonne National Laboratory

ICSBEP FIVE-YEAR PLAN ARGONNE NATIONAL LABORATORY	
<i>IDENTIFIER</i>	<i>DRAFT TITLE</i>
<i>FY-2006</i>	
HEU-COMP-FAST-004	ZPR-3 Assembly 14: A Clean HEU (93% ²³⁵ U) Carbide Core Reflected by Depleted Uranium
HEU-MET-MIXED-012	ZPPR-20: Phase D Critical Configurations
IEU-MET-FAST-011	ZPR6-1 All Aluminum - 14% Enriched
Other Measurements (Possibly)	Selected measurements from HEU-MET-INTER-001 – PSR control worth measurements, matrix Interface gap worth, worth of removing the depleted-uranium room-return shield, worth measurements of fuel column at core edge and core center drawers, kinetics parameters: β_{eff} , β/l and β_i/β . β_{eff} was repeated after removing the room return, shield at the end of the program, neutron spectrum measurements near core center and in the radial reflector, reaction rates in a central cavity, reaction rates in the unit cell, reaction-rate axial and radial distributions.
<i>FY-2007</i>	
IEU-COMP-FAST-004	ZPR-3 Assembly 12: A Large, Clean, Cylindrical Uranium (21% ²³⁵ U) Carbide Benchmark Assembly Reflected by Depleted Uranium
IEU-MET-FAST-015	ZPR-3 Assembly 6F: A Clean Cylindrical Core with a ²³⁵ U-to- ²³⁸ U Ratio of 1, Reflected by Depleted Uranium
<i>FY-2008</i>	
PU-COMP-FAST-004	ZPR-3 Assembly 48: A Clean Cylindrical Pu Carbide Core, Reflected by Depleted Uranium
MIX-COMP-FAST-002	ZPR-9 Assembly 29: Normal and Flooded Configurations of Mixed (Pu/U)-fueled GCFR Assembly
<i>FY-2009</i>	
PU-COMP-FAST-003	ZPR-9 Assembly 31: The Plutonium Carbide Benchmark Assembly Reflected by Depleted Uranium
IEU-COMP-FAST-005	ZPR-3 Assembly 11: A Large, Clean, Cylindrical Uranium (12% ²³⁵ U) Carbide Benchmark Assembly Reflected by Depleted Uranium
<i>FY-2010 and Beyond</i>	
IEU-COMP-FAST-003	ZPR-6 Assembly 5: A Large, Clean, Cylindrical Uranium Carbide Benchmark Assembly Reflected by Depleted Uranium
IEU-COMP-FAST-006	ZPR-3 Assembly 25: A Large, Clean, Cylindrical Uranium (9% ²³⁵ U) Carbide Benchmark Assembly Reflected by Depleted Uranium
Others	To Be Determined